

CONTENTS

TECHNICAL SESSION I : INNOVATIVE TECHNOLOGIES

1. Future of Affordable Housing - 3D Printing Construction Technologies 01
Dr. Oscar Concessao & Dr. Ponni Concessao
2. Innovative Modular Formwork System for Monolithic Concrete Construction 07
T.K. Das
3. Glass Fiber Reinforced Gypsum Panel Technology..... 12
Abhai Bhatnagar & Akhilesh Kumar Pandey
4. Use of Bamboo as an Alternative Construction Material..... 21
K. N. Narasimha Prasad, Siddesh K. Pai & Bharat Bhushan Jangid
5. Affordable Housing: Emerging Technologies and Building Materials in Indian Context 27
Gaurav Gangwar
6. Affordable Housing Utilising the Concept of Green Building..... 34
J. Bhattacharjee
7. Affordable Housing for All..... 40
A.K. Jain
8. New Technologies for Affordable Housing..... 49
Dr. Mutyala R Prakash
9. Rapid Wall System for Affordable Housing..... 54
Rajdeep Chowdhury

TECHNICAL SESSION II : PLANNING & DESIGN

10. Policy of Affordable Housing and Construction Technology..... 59
Dr. K. M. Soni
11. Lean Construction: A Way Forward for Affordable Housing 66
Lt. Col. Harsh Raghuvanshi & Dr. K.N. Jha

12.	Innovative Affordable Housing Techniques and Technologies.....	71
	<i>K.T. Gurumukhi</i>	
13.	Design Consideration for Affordable Coastal Housing.....	77
	<i>Mamata R. Singh & Rajesh Kumar Singh</i>	
14.	Smart Affordable Housing.....	83
	<i>P.K.Ratho</i>	
15.	Design Aspects in Construction of Affordable Housing.....	87
	<i>Dr. Indrasen Singh</i>	
16.	Fundamentals of Affordable Housing Project.....	93
	<i>Gaurishankar Dubey</i>	
17.	Sustainable Design: For Developing Affordable Housing.....	97
	<i>Narender Singh</i>	
18.	Affordable Housing: Rights of Citizen.....	103
	<i>Rakesh Sabharwal & Manju Sabharwal</i>	
19.	Estimating Seismic Response Based on Non-Linear Dynamic Analysis for Affordable Housing	109
	<i>Ram Babu Prasad & Manmohan Kumar</i>	
20.	Design Criteria for Safe and Quality Construction of Affordable Housing.....	119
	<i>O.P. Gupta VSM, Vijay Gupta, Chandan Gupta, Vaibhav Gupta & Abhishek Gupta</i>	

TECHNICAL SESSION III : CASE STUDIES

21.	Low Cementitious High Flow Concrete for Mass Affordable Housing Applications	125
	<i>Anil Kulkarni & K Renuka Prasanna</i>	
22.	Affordable Rental Housing.....	129
	<i>Usha Batra</i>	
23.	Space Saving Concepts for Affordable Housing – Case Studies.....	136
	<i>Ankur Prabhakar Attri</i>	
24.	Affordable Housing - A Case Study.....	144
	<i>Prof. R. Sathish Kumar & Prof. K. R. Ramana</i>	

25.	Affordable Housing for Multi Hazardous Region of Bihar - A Case Study.....	150
	<i>Dukhi Sah</i>	
26.	Credit Based Eco-Housing Model for Rural Areas.....	157
	<i>Dr. Alka Srivastava & Amol Mangrulkar</i>	
27.	Innovative Technologies for Affordable Housing - A Case Study.....	167
	<i>B.N. Moolchandani</i>	
28.	Affordable Housing in Tsunami Affected Areas - Case Study.....	173
	<i>Dr. Pawan Kumar</i>	
29.	Technologies in Affordable Housing - Case Study.....	178
	<i>Abhishek R. Dole</i>	